

इंटरनेट

मानक

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IS 5397 (1969): Reamer, Flexible for Kuntscher Nail
(medullary canal) [MHD 2: Orthopaedic Instruments, Implants
and Accessories]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
SPECIFICATION FOR
REAMER, FLEXIBLE FOR KUNTSCHER NAIL
(MEDULLARY CANAL)

1. **Scope** — Dimensions and requirements for flexible medullary canal reamers for Kuntcher nails.
2. **Shape and Dimensions** — As shown in Fig. 1.

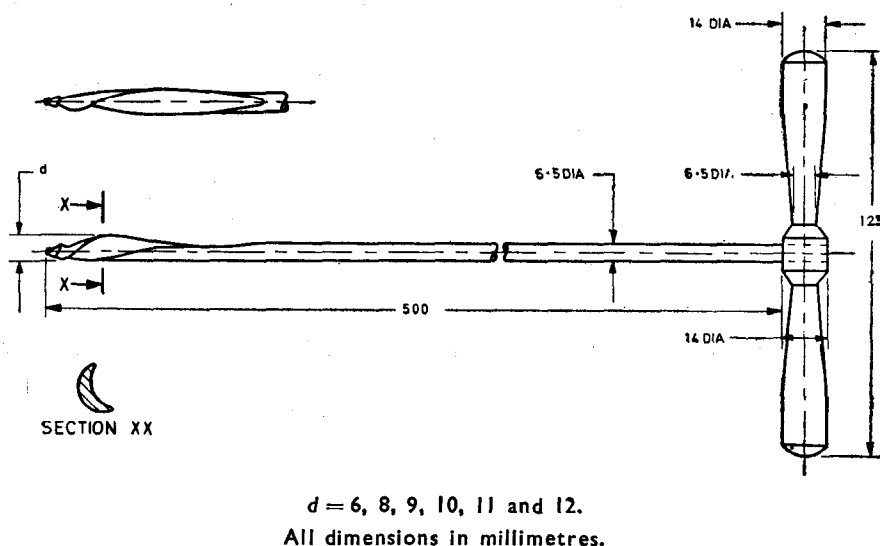


FIG. 1 REAMER, FLEXIBLE FOR KUNTSCHER NAIL (MEDULLARY CANAL)

3. **Material** — Stainless steel of Designation 30Cr13 of Schedule V of IS : 1570-1961* or stainless steel of the following composition:

	Percent
Carbon	0.35 to 0.45
Silicon	0.6 Max
Manganese	0.6 Max
Chromium	12 to 14
Nickel	1.6 Max
Sulphur	0.03 Max
Phosphorus	0.03 Max

- 3.1 Handle of the reamer shall be made from any of the following materials:

- a) Brass,
- b) Carbon steel, or
- c) Stainless steel of the same composition as for reamer.

4. **Designation** — Shall be designated by nominal size of its diameter and the number of this specification.

Example:

Dia 6 IS : 5397.

*Schedules for wrought steels for general engineering purposes.

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NEW DELHI 1

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5. Manufacture, Workmanship and Finish — The shank of the reamer shall be square at the end and fully inserted in the handle and properly brazed or welded to the handle. The reamer shall have left handed helical flutes ending in a screw-lead. The reamer shall be free from burrs, seams and other defects and shall be smoothly finished. The flute shall be clean having no surface defects. The screw lead shall lie in the centre line. The screw lead end, the fluted portion and the shank shall be concentric with the axis of the reamer. The cutting portion shall be hardened and tempered to 550 to 600 HV. When handle is made of brass or carbon steel, it shall be plated. The plating shall conform to Service Grade No. 3 of IS : 1068-1968*.

6. Performance Test — The reamer shall be worked in a hole one millimetre less in diameter than its own diameter in a piece of fresh sheep bone of suitable size up to a depth of 15 mm. The reamer shall not be withdrawn during the reaming operation. The reamer shall have cleaned the hole clearly and accurately and shall be capable of being withdrawn easily. After the test, the reamer shall show no sign of damage or flaw.

7. Twisting Test — The shank of the reamer shall be securely gripped above the fluted portion in a vice or other suitable fixture. A torque shall be applied on the handle manually which shall twist the shank through an angle of 30° maximum. After the test the reamer shall regain its original position and show no sign of damage, fracture or flaw.

8. Marking — Each reamer shall be clearly and indelibly marked with the following:

- a) The name or trade-mark of the manufacturer, and
- b) The size of the reamer.

8.1 ISI Certification Marking — Details available from the Indian Standards Institution, New Delhi 1.

9. Packing — Shall be as agreed to between the purchaser and the supplier.

*Specification for electroplated coatings of nickel and chromium on Iron and steel (first revision).